

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	127	("20020007153"   "20020010425"   "20030060770"   "20030187397"   "20040049173"   "20040064100"   "20040111060"   "20040147949"   "20040230161"   "3504699"   "3773233"   "4436519"   "4601710"   "4610665"   "4654030"   "4655752"   "4902280"   "4931042"   "4932633"   "5030206"   "5053013"   "5104383"   "5203773"   "5209737"   "5211634"   "5246425"   "5300033"   "5308336"   "5324270"   "5342315"   "5364372"   "5366445"   "5385552"   "5385553"   "5441041"   "5456284"   "5467762"   "5534009"   "5542931"   "5569160"   "5578016"   "5584850"   "5603702"   "5628732"   "5643301"   "5743884"   "5792113"   "5800451"   "5807338"   "5895377"   "6017356"   "6024729"   "6086603"   "6093176"   "6254529"   "6277100"   "6302852"   "6352520"   "6569120"   "6610031"   "6613063"   "6685630"   "6702787"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:50
L2	145	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:50

L3	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2010/02/18 11:50
L4	315	L1 L2 L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:50
L5	145	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:50

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L7	145	604/ 167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:50
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L11	315	1 2 3 4 5 6 7 8 9 10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 11:51
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L13	31	I12 conical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:52

L14	11	I12 conical @ay<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:52
L15	165	I11 (duckbill or zero or close)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:52
L16	33	I15 conical @ay<"2002"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:53
L17	46	I15 conical @ay<"2003"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:54
L18	201	I11 (duckbill or zero or close or tight)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 11:55
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L21	158	604/167.02.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:43

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L23	0	604/167.07.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:43
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L25	0	604/167.11.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:43
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L30	90	604/164.07.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:45
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L33	145	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:46
L34	2209	20 21 22 23 24 25 26 27 28 29 30 31 32 33	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:47
L35	148	I18 and I34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 12:47
L36	38	I19 and I34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 12:47
L37	114	604/164.04.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/18 12:52

L38	0	I19 and I37	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2010/02/18 12:52
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S2	115	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/02 16:05



S3	2	"5209737".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/03 06:49
S4	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2007/08/03 06:59
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S6	13	S4 conical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2007/08/03 07:04

S7	126	( "20020007153"   "20020010425"   "20030060770"   "20030187397"   "20040049173"   "20040064100"   "20040111060"   "20040147949"   "20040230161"   "3504699"   "3773233"   "4436519"   "4601710"   "4610665"   "4654030"   "4655752"   "4902280"   "4931042"   "4932633"   "5030206"   "5053013"   "5104383"   "5203773"   "5209737"   "5211634"   "5246425"   "5300033"   "5308336"   "5324270"   "5342315"   "5364372"   "5366445"   "5385552"   "5385553"   "5441041"   "5456284"   "5467762"   "5534009"   "5542931"   "5569160"   "5578016"   "5584850"   "5603702"   "5628732"   "5643301"   "5743884"   "5792113"   "5800451"   "5807338"   "5895377"   "6017356"   "6024729"   "6086603"   "6093176"   "6254529"   "6277100"   "6302852"   "6352520"   "6569120"   "6610031"   "6613063"   "6685630"   "6702787"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/03 07:04
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S17	2	"6385552".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 06:13
S18	2	"5385552".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/03/02 06:14
S19	0	("2005/0096605").URPN.	USPAT	OR	OFF	2008/03/02 06:34
S20	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2008/03/02 07:30

S21	13	S20 conical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 07:30
S22	13	S21	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2008/03/02 07:30
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S25	135	604/ 167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/25 20:10
S26	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2009/02/25 20:10
S27	305	S24 S25 S26	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/02/25 20:10
S28	0	S27 concial	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/02/25 20:11

S29	101	S27 conical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/02/25 20:11
S30	127	("20020007153"   "20020010425"   "20030060770"   "20030187397"   "20040049173"   "20040064100"   "20040111060"   "20040147949"   "20040230161"   "3504699"   "3773233"   "4436519"   "4601710"   "4610665"   "4654030"   "4655752"   "4902280"   "4931042"   "4932633"   "5030206"   "5053013"   "5104383"   "5203773"   "5209737"   "5211634"   "5246425"   "5300033"   "5308336"   "5324270"   "5342315"   "5364372"   "5366445"   "5385552"   "5385553"   "5441041"   "5456284"   "5467762"   "5534009"   "5542931"   "5569160"   "5578016"   "5584850"   "5603702"   "5628732"   "5643301"   "5743884"   "5792113"   "5800451"   "5807338"   "5895377"   "6017356"   "6024729"   "6086603"   "6093176"   "6254529"   "6277100"   "6302852"   "6352520"   "6569120"   "6610031"   "6613063"   "6685630"   "6702787"). PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/29 13:22
S31	142	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/29 13:22



S32	142	604/167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/09/29 13:22
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S34	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-	USPAT	OR	OFF	2009/09/29 13:22

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S35	13	S34 conical	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2009/09/29 13:22
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S37	145	604/ 167.06.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/17 18:27
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		"5366445"   "5385552"   "5385553"   "5441041"   "5456284"   "5467762"   "5534009"   "5542931"   "5569160"   "5578016"   "5584850"   "5603702"   "5628732"   "5643301"   "5743884"   "5792113"   "5800451"   "5807338"   "5895377"   "6017356"   "6024729"   "6086603"   "6093176"   "6254529"   "6277100"   "6302852"   "6352520"   "6569120"   "6610031"   "6613063"   "6685630"   "6702787"). PN.				
S39	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2010/02/17 18:27

S40	315	S38 S37 S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/02/17 18:27
S41	49	(US-5285944-\$ or US-5383882-\$ or US-5392979-\$ or US-5618306-\$ or US-5810877-\$ or US-5976159-\$ or US-5271380-\$ or US-5312354-\$ or US-5334185-\$ or US-5407427-\$ or US-5431151-\$ or US-5501698-\$ or US-5562690-\$ or US-5577993-\$ or US-5685820-\$ or US-5897523-\$ or US-5980544-\$ or US-6007481-\$ or US-6090120-\$ or US-5234438-\$ or US-5395312-\$ or US-5417702-\$ or US-5421338-\$ or US-5423833-\$ or US-5431323-\$ or US-5547458-\$).did. or (US-5549606-\$ or US-5591188-\$ or US-5613939-\$ or US-5628758-\$ or US-5630831-\$ or US-5672179-\$ or US-5713919-\$ or US-5720756-\$ or US-5725537-\$ or US-5797536-\$ or US-5817119-\$ or US-5824002-\$ or US-5891140-\$ or US-5997565-\$ or US-6063098-\$ or US-6080175-\$ or US-6129713-\$ or US-6162235-\$ or US-6206844-\$ or US-6214023-\$ or US-3613684-\$ or US-3570498-\$ or US-3698396-\$).did.	USPAT	OR	OFF	2010/02/17 18:47
S42	38	(US-20050065475-\$ or US-20020007152-\$ or US-20020111585-\$ or US-20030040711-\$ or US-20030050604-\$ or US-20030109853-\$ or US-20030181858-\$ or US-20040006356-\$ or US-20040059297-\$ or US-20040210194-\$ or US-20040204682-\$ or US-20040230161-\$ or US-20040260244-\$ or US-20050020981-\$ or US-20050096605-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2010/02/18 08:06

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